

Title (en)  
Imprint mold structure, imprinting method using the same, and magnetic recording medium

Title (de)  
Druckformstruktur, Druckverfahren damit und magnetisches Aufzeichnungsmedium

Title (fr)  
Structure de moule d'impression, procédé d'impression l'utilisant et moyen d'enregistrement magnétique

Publication  
**EP 2037453 B1 20100721 (EN)**

Application  
**EP 08015838 A 20080909**

Priority  
JP 2007238031 A 20070913

Abstract (en)  
[origin: EP2037453A1] The present invention provides an imprint mold structure which can efficiently and uniformly transfer a pattern by enhancing flow of a composition of the imprint resist layer when the imprint mold structure is pressed against the imprint resist layer, an imprinting method of improved transfer accuracy by using the imprint mold structure, and a magnetic recording medium of improved recording and reproduction property. Provided is an imprint mold structure in which at least any one of an inner circumferential edge and an outer circumferential edge of the concavo-convex patterns in a data area and a servo area of the disc-shaped substrate of the imprint mold structure a dummy pattern is formed which corresponds to a pattern on a magnetic recording medium substrate extending radially from at least any one of an inner circumferential edge and an outer circumferential edge of a pattern forming area.

IPC 8 full level  
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**B29C 33/3842** (2013.01 - EP US); **B29C 33/424** (2013.01 - EP US); **B82Y 10/00** (2013.01 - EP US); **B82Y 40/00** (2013.01 - EP US); **G03F 7/0002** (2013.01 - EP US); **G11B 5/743** (2013.01 - EP US); **G11B 5/855** (2013.01 - EP US)

Citation (examination)  
• US 2006098319 A1 20060511 - SADO HIDEO [JP]  
• JP 2004177783 A 20040624 - FUJI PHOTO FILM CO LTD

Cited by  
EP2105920A1; US2009308841A1; US8377322B2; US10427329B2; US8840795B2; WO2011028060A3

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DOCDB simple family (application)  
**EP 08015838 A 20080909**; DE 602008001846 T 20080909; JP 2007238031 A 20070913; US 20544408 A 20080905